EXHIBIT A

TO THE DECLARATION OF ARPITA BHATTACHARYYA IN SUPPORT OF ASETEK DANMARK A/S'S MOTION FOR PARTIAL SUMMARY JUDGMENT

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                     UNITED STATES DISTRICT COURT
                   NORTHERN DISTRICT OF CALIFORNIA
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 3
                        SAN FRANCISCO DIVISION
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       ASETEK DANMARK A/S,
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             Plaintiff and
                                  ) Case No. 3:19-cv-00410-EMC
             Counterdefendant,
                                  )
 6
       v.
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       COOLIT SYSTEMS, INC.,
 8
             Defendant and
 9
             Counterclaimant,
10
       COOLIT SYSTEMS USA INC.,
       COOLIT SYSTEMS ASIA
11
       PACIFIC LIMITED, COOLIT
       SYSTEMS (SHENZHEN) CO.,
       LTD., CORSAIR GAMING,
12
       INC., CORSAIR MEMORY,
13
       INC.,
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             Defendants.
15
                      THURSDAY, JANUARY 6, 2022
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             REMOTE Videotaped Deposition of HIMANSHU
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       POKHARNA, PH.D., beginning at 9:16 a.m., before
       Nancy J. Martin, a Registered Merit Reporter,
21
       Certified Shorthand Reporter. All parties appeared
22
23
       remotely.
       Job no. 5008250
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       Pages 1 - 142
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20
       JOHN ABRAHAM
21
       DAVID WEST, LEGAL VIDEOGRAPHER
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patents?

2.0

- A. Yes.
- Q. Is it fair to say that, sitting here today, you are not in a position to say, one way or the other, if there are any material differences between CoolIT's initial new design and the Tamriel design as they relate to Asetek's patent claims?
- A. I believe there's only a cosmetic difference between the two systems. So I don't see any reason why there should not be a difference, but I have not done a detailed analysis to say that with hundred percent certainty.
- Q. Dr. Pokharna, are you aware that all asserted claims of CoolIT's '567 patent have been found unpatentable by the patent office?
- A. Yes, I believe PTAB has invalidated the claims of '567, but I believe that CoolIT is appealing that decision.
- Q. Are you aware that claims 1, 2, 5, and 9 of the '266 patent have also been found unpatentable by the patent office?
- A. I am aware that some of the claims were found to be unpatentable, but I will just believe you that those were the claim numbers. I don't have them committed to my memory.

1 I can represent to you that all the asserted 2 claims, except claims 13 and 15 of the '266 patent, have been found unpatentable by the Patent Office. 4 Α. Okay. I believe that. Okay. So let's just focus on claim 15 and 16 5 Ο. 6 of the '266 patent. Okay? Sorry, you mean 13 and 15? Α. Sorry. Yes. Claims 13 and 15 of the '266 8 0. 9 patent. 10 And you could probably answer this question from the top of your head, but if you need to look at 11 12 your report, the claim chart for the '266 patent is 13 Exhibit 337D. 14 Α. Okay. So you may recall, from the work you have 15 done for the IPR involving the '266 patent, that there 16 17 was a dispute between the parties regarding the 18 priority date of some of the claims of the '266 19 patent; right? I recall that. 2.0 Α. And I'll represent to you that claims 13 and 21 22 15 were not involved in that priority dispute. 23 Α. Okay. So in doing your analysis for claims 13 and 24 25 15 of the '266 patent, what priority date did you Page 52

1 apply? 2 I applied 200- -- I believe it's some date in 2007. And I will need to look up the exact date. 3 It's certainly not 2011, which was the other priority 4 date that you referred to earlier in the dispute. 5 The asserted claims 13 and 15 of the '266 6 patent are directed to a fluid heat exchanger; 7 whereas, the asserted claims 1, 2, 5, and 9 of the '266 patent are directed to a heat exchange system; 9 10 right? 11 MR. DYER: Objection. Vague. Outside the 12 scope. 13 THE WITNESS: Yes, but the first line of 14 claim 1 is directed to heat exchange system, and 13 is 15 to fluid heat exchanger. BY MS. BHATTACHARYYA: 16 17 The fluid heat exchanger is a component of Q. 18 the heat exchange system; correct? 19 MR. DYER: Objection. Vague. 2.0 THE WITNESS: It depends. It -- it could be, or it could be the same thing as well. A fluid heat 21 22 exchanger is certainly a heat exchange system, but 23 heat exchange system is a bit broader to me than a fluid heat exchanger. But this certainly does not 24 25 mean that a heat exchange system could not just be a Page 53

1 fluid heat exchanger. 2 BY MS. BHATTACHARYYA: The fluid heat exchanger that is recited in claims 13 and 15 of the '266 patent and in the other 4 CoolIT patents as well does not include the pump and 5 6 other components of the entire heat exchange system; correct? MR. DYER: Objection. Mischaracterizes the 8 9 record. Vaque. 10 THE WITNESS: Fluid heat exchanger, that is -- that the claim 13 invention describes is limited 11 12 to the component that comes in -- or a system that comes in contact with the heat-generating device, like 13 14 a CPU or a GPU. However, because of the use of the phrase "comprises," it does not, I believe, exclude 15 other features that might be present in a system that 16 has all of these features. 17 18 BY MS. BHATTACHARYYA: 19 There was a claim construction for fluid heat exchanger; right, Dr. Pokharna? 2.0 Can I just refresh my memory about that? 21 22 Q. Sure. I can direct you to your report at page 6 where the claim constructions are listed. 23 Yeah. I recall that. Thanks for 24 Yeah. 25 reminding me about that.

1 does not enclose the peripheral side wall of the cold 2 plate which you have referred to as the head spreader plate; correct? 4 Yes. The same answer. The way the fastening is done is with removable fasteners such that they 5 don't need to enclose the side walls of the thermal 6 exchange chamber. Dr. Pokharna, now is probably a good time for a break. We have been going for close to an hour and 9 10 a half. Okay. How long? 11 12 We can discuss that once we go off the Q. record. 13 14 THE VIDEOGRAPHER: We're off the record at 15 11:51 a.m. (WHEREUPON a recess was taken from 11:51 a.m. 16 17 to 12:33 p.m.) THE VIDEOGRAPHER: We are back on the record. 18 19 The time is 12:33 p.m. BY MS. BHATTACHARYYA: 2.0 Welcome back, Dr. Pokharna. 21 22 Α. Thank you. 23 Dr. Pokharna, during the break -- breaks that we have taken during the deposition, did you have any 24 25 conversation with counsel regarding the substance of Page 62

1 the testimony that you have given or you will give in 2 the deposition? Α. No. I just want to remind you that there's a 4 standing order in this case that says witnesses should 5 not have any communication with counsel regarding the 6 substance of their deposition during any breaks. 7 8 Do you understand that? I did not. I understand that, and I did not 9 Α. 10 have any sort of communication, E-mail, written, text, call, et cetera. 11 12 Okay. Thank you. Q. 13 So -- okay. All independent claims of the 14 '330 patent, the '284 patent and claim 13 of the '266 patent recite a plate positioned over and overlying 15 the microchannel fins; right? 16 17 Α. Yes. 18 So for Asetek's Gen 4 product, what part of 19 the device are you referring to as the claimed -sorry -- claimed plate? 2.0 So it's shown on, I believe it's page 8 of 21 22 exhibit marked 337A, and it's essentially the features 23 here, the metal plate here that's upon the Generation 4. 24 25 Q. You are not considering the rubber gasket Page 63

2.0

that surrounds and holds the metal plate as part of
the claimed plate for the Asetek Gen 4 products;
right?

A. Yes. That slide from Gen 4, the black seal

- that is providing -- the black part that is providing the sealing, as well as the gasket function for -- between the heat exchange plate and the housing, is -- I'm not mapping that as a part of the plate.
- Q. Just so the record is clear, the black part that is providing -- sorry. By "the black part that is providing the sealing," you mean the -- the rubber gasket that the plate -- the plate is attached to; right?
- A. Yes. This rubber piece, black -- the plate is positioned inside, is not mapped explicitly as a part of the plate.
- Q. And that would be correct for all asserted claims of the CoolIt patents that recite the claimed term "plate"; right? So let me ask that.

With respect to Asetek's Gen 4 product, for all asserted claims of CoolIT's patents, you are not mapping the rubber gasket piece as part of the claimed plate; correct?

A. The rubber gasket piece is serving a few different functions on this Gen 4 product. It's

1 forming a seal between the plate and the housing, but 2 it is also forming a gasket between the housing -- and the -- I quess it's called the outer -- the housing and the outer limit of the heat sink or the heat sink 4 at the bottom. 5 6 So the gasket, what you're calling as the 7 black piece as a gasket, is performing both of those functions, and it's not explicitly mapped to the 8 claimed plate. 9 10 Ο. Thank you for that. 11 I just want to make -- have it clear for the 12 record that the answer that you just gave applies to all of the asserted CoolIt claims that recites the 13 14 claimed term "plate" vis-a-vis the Asetek Gen 4 products; right? 15 16 Give me a moment to confirm that, please. 17 Q. Okay. Go ahead. 18 (The witness reviewed the documents.) 19 THE WITNESS: Yes, that's correct. BY MS. BHATTACHARYYA: 2.0 For Asetek's Gen 5 product -- strike that. 21 22 I'll direct you to the part of the claim chart which starts discussing the Gen 5. Maybe that 23 would be easier. 24 25 The discussion of Gen 5 starts on page 30 of Page 65

1 Exhibit 337A. 2 Α. Yes, I'm there. So for Asetek's Gen 5 product, you are Q. mapping the claimed term "plate" to the rubber gasket 4 that overlies the plurality of fins and microchannels 5 6 on the heat spreader plate; right? MR. DYER: Objection. Mischaracterizes the 8 report. THE WITNESS: In my report, we have mapped 9 10 the portion of what you are calling -- or what Dr. Tuckerman calls a rubber gasket. The portion that 11 overlies the channels is the claimed plate. 12 13 BY MS. BHATTACHARYYA: 14 Q. The portion that -- strike that. The portion of the structure that overlies 15 the microchannels and fins on the heat spreader plate 16 17 is a rubber gasket; correct? 18 MR. DYER: Objection. Mischaracterizes. 19 THE WITNESS: It's a plate that Dr. Tuckerman is calling rubber gasket. If I were -- my way, I 2.0 would rather characterize it as plate seal assembly. 21 22 BY MS. BHATTACHARYYA: 23 That portion of the -- strike that. Ο. The structure that overlies the fins and 24 25 microchannels and the heat spreader plate is a Page 66

1 compliant structure; correct? 2 MR. DYER: Objection. Vaque. THE WITNESS: To me, "compliant" is a 3 relative term. And just in the way that plate is 4 compliant enough to cover the top of each of the 5 6 microchannels, as disclosed in the embodiments in '330 7 and the rest of the patents, the plate seal assembly that you are calling as rubber gasket is similarly performing the job of covering the tops of the 9 10 channel. 11 Whether it is compliant or not is not 12 something that is material to its function for 13 performing the task that is attached to it, as per the 14 specifications of and -- and the claims of the patents from CoolIt. 15 BY MS. BHATTACHARYYA: 16 17 Dr. Pokharna, I'm not asking you about the Q. 18 functions of the plate. I'm just asking you the --19 the structure that you have labeled as the plate of Asetek's Gen 5 product, that structure is made of a 2.0 21 compliant material; correct? 22 Α. Just like the plate is also made out of the compliant material, the structure on top here also is 23 made out of compliant material. 24 I don't know what plate you're referring to. 25 Ο. Page 67

1 So I -- I'm not talking about a plate. 2 just talking about the Gen 5 device, and I'm asking you, the structure within the Gen 5 -- Asetek's Gen 5 4 device, which you have mapped as the plate, is made of a compliant material; correct? 5 6 Anything that is claimed as plate to cover the top of the channels will need to have some compliancy in it to cover the top of the channels. the same manner, the accused devices have these plate 9 10 seal assembly that is made out of material that has some compliance in it. 11 12 Dr. Pokharna, that doesn't answer my Q. 13 question. I'll ask you again. In Asetek's Gen 5 device, the structure that 14 you have mapped as the claimed plate is made of a 15 compliant material; correct? 16 17 MR. DYER: Objection. Asked and answered. 18 THE WITNESS: Exactly that allows a disclosure of '266 and other items from CoolIt. 19 plate is performing the task of covering the channels 2.0 which requires it to have some level of compliancy. 21 22 Compliancy, by itself, is sort of -- to a person of ordinary skill in the art, when they are 23 reading the claimed patent and its prosecution 24 25 histories, to them, compliancy means something that

1 can be used to cover the top of the channels. 2 When you have this whole assembly together, the plate is forming the top of the channels. And for 4 that, it might need to have some compliancy. And -but its structure and function, from the point of view 5 of the patent '266, is the same. 6 7 BY MS. BHATTACHARYYA: Okay. Dr. Pokharna, you're not answering my question. So I -- if you want to evade it, you can 9 10 evade and give vague answers, but, you know, I'm going to keep asking you. 11 12 So I'm going to -- and maybe let's take a look at Exhibit 337C where you have mapped the same 13 14 structure that you map as the plate to a compliant member. So maybe -- maybe that will help you answer 15 16 my question. 17 MR. DYER: When there's a question pending, 18 I'll let him answer. But, Counsel, I'd appreciate it 19 if you don't scold the witness or make comments like "evading the questions." That's not appropriate. 2.0 21 Just ask your question. 22 MS. BHATTACHARYYA: Once the record -- so the record is clear -- again, Mr. Dyer, please stop with 23 24 the speaking objections and comments. Just stop. 25 MR. DYER: Counsel, I'm commenting on your Page 69

1	comment. You shouldn't be scolding a witness like
2	that. It's not appropriate, period.
3	MS. BHATTACHARYYA: And as if CoolIt's
4	counsel has not called Asetek's experts names and
5	alluded to him lying on the record? So, please, save
6	me that. And please stop commenting.
7	MR. DYER: I just made my comment. You can
8	do you can do whatever you want
9	MS. BHATTACHARYYA: And do not do that and
10	do not do that again, Mr. Dyer.
11	MR. DYER: I will if you make a comment like
12	that again.
13	MS. BHATTACHARYYA: Well, the record shows
14	that Dr. Pokharna is evading my question. You can
15	disagree. You could disagree. Just say, "I
16	disagree."
17	MR. DYER: Oh, I do disagree.
18	MS. BHATTACHARYYA: That's
19	MR. DYER: Ask a question.
20	MS. BHATTACHARYYA: And that's and you
21	should just stop at that. Do not then go no need
22	to make a speech. That's all I'm saying.
23	MR. DYER: All right. The record is clear.
24	THE WITNESS: So in Exhibit C, I do call the
25	portion of the plate seal assembly that is forming
	Page 70

1 That's correct. Α. 2 Q. So the portion of the gasket that overlies the microchannel fins is also made of a compliance 3 material; correct? 4 MR. DYER: Objection. Asked and answered 5 three times. 6 THE WITNESS: So, again, the portion of the gasket that overlies the microchannel fins is providing the cover for the fins. And whether it is 9 10 compliant or not is immaterial because from the previous disclosures, it's not a limitation that was 11 there in the disclosure. 12 13 BY MS. BHATTACHARYYA: 14 I'm not asking you that. And, Dr. Pokharna, you are not answering my question. I'm asking you the 15 portion of the -- let's take it this way, 16 17 Dr. Pokharna. The gasket that overlies the 18 microchannel fins in Asetek's Gen 5 product is made of 19 rubber; right? 2.0 MR. DYER: Objection. Mischaracterizes the record. Mischaracterizes his testimony and his 21 22 report. THE WITNESS: I -- I have not done a material 23 analysis on that, but it is -- I believe some of them 24 25 say EPDM on them. So I guess it's made out of EPDM. Page 76

1 BY MS. BHATTACHARYYA: 2 And EPDM is a compliant material; correct? Q. MR. DYER: Objection. Asked and answered. 3 Lacks foundation. 4 THE WITNESS: EPDM is a soft material, yes. 5 6 BY MS. BHATTACHARYYA: EPDM is a type of rubber; correct? Q. That's right. Just like your roofing is also 8 Α. made out of EPDM, the roofing on the homes is also 9 10 made out of EPDM plates. Yes. 11 So you agree EPDM is rubber? 12 MR. DYER: Objection. Asked and answered. THE WITNESS: To be honest, I don't know if 13 14 it is a kind of rubber or kind of plastic. But -yeah, I'm not hundred percent sure if it is a kind of 15 rubber or a kind of -- it's probably more like some 16 kind of manmade rubber. 17 BY MS. BHATTACHARYYA: 18 Let's look at page 17 of Exhibit 337C. 19 Q. 2.0 I'm there. Α. Claim 1 of the '567 patent requires "the 21 22 compliant member to at least partially define an opening positioned over the groove, wherein the 23 compliant member and the groove together define a 24 25 portion of an inlet manifold configured to Page 77

1 hydraulically couple in parallel each of the 2 microchannels to at least one other of the microchannels"; right? 3 4 Α. Right. The portion of the rubber gasket that is --5 Ο. that overlies the microchannel fins is the compliant 6 7 member that defines an opening position over the 8 groove; right? 9 MR. DYER: Objection. The question is vaque. 10 (The witness reviewed the document.) 11 BY MS. BHATTACHARYYA: 12 Dr. Pokharna, let's strike that question. Q. 13 Let's look at page 20 of Exhibit 337C. 14 Α. I'm there. You have mapped an opening in the rubber 15 gasket that overlies the microchannel fins as opening 16 17 in the compliant member. Do you see that? 18 Α. Yes. Just give me a moment here. I'm sorry, I'm looking at the... 19 (The witness reviewed the document.) 2.0 THE WITNESS: That's right. This opening in 21 22 the compliant member is pointing to kind of the -- the 23 backside of that home or the -- the passageway that is connecting, I believe in this case, the inlet port, to 24 25 the aperture; right? So there is sort of a conical Page 78

1 subset that is formed that is -- you can see on the 2 left side picture where like you see aperture. that entire section is -- that passageway which is connecting the inlet port to the groove, the opening 4 in the compliant member is pointing to essentially a 5 6 hole in that seal. BY MS. BHATTACHARYYA: The portion of the rubber gasket that 8 0. overlies the microchannels and microchannel fins of 9 10 the heat spreader plate, that portion is made of a compliant material; correct? 11 12 MR. DYER: Objection. Asked and answered. 13 THE WITNESS: I'm sorry. You may have to 14 repeat the question again. BY MS. BHATTACHARYYA: 15 The portion of the rubber gasket in Asetek's 16 Gen 5 product that overlies the microchannels and 17 microchannel fins of the heat spreader plate is made 18 19 of a compliant material; correct? MR. DYER: Objection. Asked and answered. 2.0 THE WITNESS: I believe that what we are 21 22 referring to is the portion of the compliant seal that is positioned over the groove and providing the 23 sealing between the second side of the housing and --24 25 and the plate side of this plate seal assembly is made

1 out of compliant member. 2 BY MS. BHATTACHARYYA: Since it is a one-piece material, the other side of that structure, the portions of the rubber 4 gasket that overlies the fins and microchannels of the 5 6 heat spreader plate is also a compliant material; correct? It's -- the entire plate fin assembly in these products is made out of the same material. 9 10 I think -- I don't think you answered my I'm not talking about the plate fin 11 12 assembly. I'm talking about the rubber gasket that 13 overlies the microchannel fin and plates of the heat 14 spreader plate. MR. DYER: Objection. You're 15 mischaracterizing his testimony. He's calling it one 16 17 thing and you're calling it another. 18 MS. BHATTACHARYYA: That's why I'm setting 19 the record straight. 2.0 BY MS. BHATTACHARYYA: I'm not talking about the heat spreader 21 22 I'm talking about the gasket that overlies the 23 microchannels and fins of the heat spreader plate. That gasket, and especially the portion of the gasket 24 25 that overlies the microchannel and microchannel fins, Page 80

1 is made of a compliant material; right? 2 MR. DYER: Objection. Mischaracterizes testimony. Mischaracterizes his report. 4 THE WITNESS: Yeah. So that portion of gasket that overlies the microchannel is what I'm 5 referring to as the plate. And I'm -- I'm agreeing 6 7 that that entire assembly is made out of the same material. BY MS. BHATTACHARYYA: 9 10 Q. And that same material is the compliant material; correct? 11 12 MR. DYER: Objection. Asked and answered 13 multiple times. 14 THE WITNESS: Because it has to perform the seal operation, where the compliance is really 15 important, it is -- the entire part is made out of 16 what you would call a compliant material. 17 BY MS. BHATTACHARYYA: 18 19 Q. Let's take a look at Exhibit 337D which charts the '266 patent. 2.0 21 Α. Yes. 22 Let's go to page 19, which shows your mapping 23 for the element 1[d] of claim 1 of the '266 patent. Do you see your annotation of, "A pair of complaint 24 25 surfaces flanking the opening"? Page 81

1 Yes, I do. Α. 2 Q. The compliant surfaces flanking the opening, that's the portion of the rubber gasket in Asetek's 4 Gen 5 product that you have mapped as the claimed plate with respect to various other CoolIt claims; 5 6 right? MR. DYER: Objection. Mischaracterizes his 8 testimony. Mischaracterizes his report. 9 (The witness reviewed the document.) 10 THE WITNESS: In the context of '266 patent's mapping from claim 1, yes, we have -- I have mapped it 11 to the -- what is claimed as -- as plate to be the 12 13 compliant member. 14 BY MS. BHATTACHARYYA: I think I know what you mean, but I have to 15 16 get the record clear here. So you agree that the 17 portion of the rubber gasket in Asetek's Gen 5 18 product, that you have mapped as the plate recited in 19 various Asetek claims, is a compliant structure? 2.0 MR. DYER: Same objections. THE WITNESS: I would agree with your 21 22 statement with just, instead of rubber gasket, I do want to call it the plate gasket assembly. 23 BY MS. BHATTACHARYYA: 24 25 By plate gasket assembly, you are referring Ο. Page 82

1 to the structure in the Asetek Gen 5 devices that 2 overlies the microchannels and microchannel fins of the heat spreader plate; correct? 4 Α. Yes, it overlies that as well as provides a seal as well as gasketing at various fluid boundaries, 5 6 and especially within --(The reporter requested clarification.) THE WITNESS: And especially between the 8 housing and the blade portion of the plate gasket 9 10 assembly. BY MS. BHATTACHARYYA: 11 12 The portion -- strike that. Q. The structure in Asetek's Gen 5 product that 13 14 you have mapped as the claimed plate in various CoolIt claims is a compliant structure; correct? 15 MR. DYER: Objection. Asked and answered. 16 17 THE WITNESS: Just like a plate that needs to 18 provide the upper boundary of the channels, this --19 what you call as a compliant member is providing that boundary on top of the microchannels. 2.0 BY MS. BHATTACHARYYA: 21 22 Q. It's not about what I am calling, Dr. Pokharna. I'm asking for your opinion. 23 Asetek Gen 5 product, the structure that overlies the 24 25 microchannels -- microchannels and microchannel fins Page 83

2.0

in the heat spreader plate, is a compliant structure; correct?

MR. DYER: Objection. Asked and answered.

THE WITNESS: I think -- so when a person of ordinary skill in the art looks at a structure being compliant or not, it is relative to the function that it is supposed to perform. If the top structure was -- top structure on -- to cover the top of the channels was totally compliant, then it could not hold any pressure differential across the channels or of the two sides of this, quote/unquote, compliant member, and therefore, it would not perform the duty of forming the top of the channels.

I mean, in the limit, compliancy could be like, you know, something that is totally sloppy and with slightest of pressure differential, it can deform. And there is a certain level of stiffness also that is required to cover the top of the channels.

So the entire compliancy that you are referring to in that has to do with forming the fluid seals between the housing and the claimed plate. From the point of view of covering the top of the microchannels, if it had absolutely compliancy like you are referring to, then it will not perform its

function as a plate.

2.0

So from the point of view of performance or its function as the claimed plate, I don't believe it has compliancy because during operation, it's not going to be deforming. Although there is pressure differential on the two sides of the plate, the -- one side of the plate has liquid coming in. So that's presumably at -- at higher pressure. And the fluid going through the channels is -- because of the pressure drop, has lower pressure. If it had -- if it was absolutely compliant, it wouldn't hold any pressure differential. So it requires some stiffness also to perform its job as the top of the microchannel.

So from that point of view, from microchannel's point of view, from the point of view of its job as -- to cover the top of the channels, it's fairly stiff.

BY MS. BHATTACHARYYA:

- Q. Dr. Pokharna, I'm not talking about structural rigidity or stiffness. I am asking you about the materials. So let's take a look at page 19 of Exhibit 337D.
 - A. Uh-huh.
 - Q. You are annotating portions of the structure

1 that overlies the microchannels and fins of the heat 2 spreader plate as a pair of compliant surfaces. you see that? 4 Α. Yes. And with respect to other CoolIt asserted 5 6 claims that recite the claim term "plate," you have 7 referred to the same portion of the structure overlying the microchannels and fins as the plate; correct? 9 10 Α. That's correct. Ergo, the -- the structure in the Asetek 11 Gen 5 device that overlies the microchannel fins and 12 microchannels of the heat spreader plate, which you 13 14 have referred to as the claimed plate, are all -- also have compliant surfaces; correct? 15 MR. DYER: Objection. Mischaracterizes his 16 17 testimony. Asked and answered and is argumentative. 18 THE WITNESS: Just because it may have some compliancy does not preclude it from performing the 19 function of the claimed plate in various CoolIt 2.0 21 patents. 22 BY MS. BHATTACHARYYA: 23 Again, I'm not asking you about the functions of the plate. I'm just saying the portion of the 24 25 Asetek Gen 5 product that you refer to as the claimed

plate, that portion is made of a compliant material; 1 2. correct? Objection. Asked and answered. MR. DYER: BY MS. BHATTACHARYYA: 4 5 And I'm not talking about whether that portion can perform the function of a plate or not. 6 Leave that aside. I am only talking about the material of the structure that you refer to as the 8 9 claimed plate in Asetek's Gen 5 product. MR. DYER: I object again. Asked and 10 11 answered. 12 THE WITNESS: Again, simply because it's 13 made -- the entire assembly is made out of same 14 material as the various gaskets, in that sense, I 15 quess you could -- you could call it as compliant 16 material. 17 But, again, from the point of view of 18 channels, it -- and the flow through the channels, it's not really compliant, or it will not really 19 20 perform the function of being a plate on top because 21 it will move under pressure, and it could exactly 22 prohibit it from doing the function that it is supposed to do on top of the channels. 23 24 BY MS. BHATTACHARYYA: 25 Even the compliant material can have some Page 87

1 microchannels communicate with each other fluidly in 2 between -- within each microchannel length. Q. So you are interpreting the claim term "blade" to include both the metal plate that's in the 4 Asetek accused Gen 4 product as well as the gasket 5 6 that is in Asetek's accused Gen 5, 6, and 7 products; 7 correct? 8 MR. DYER: Objection. Mischaracterizes the report and his testimony. 9 10 THE WITNESS: No, that's -- that's certainly not true, Counsel. 11 BY MS. BHATTACHARYYA: 12 What is your -- so with respect to Asetek's 13 Gen 4 product, you are referring to the metal plate as 14 the claimed plate recited in various CoolIt claims; 15 16 correct? 17 That is correct, yeah. Α. 18 And with respect to Asetek's accused Gen 5, 19 6, and 7 products, you are referring to the gasket structure that is made of rubber as the claimed plate; 2.0 21 correct? 22 MR. DYER: Objection. Mischaracterizes testimony. Mischaracterizes his report. 23 THE WITNESS: The entire what I call as plate 24 25 seal assembly is not the claimed plate. Just like the Page 90

1 specifications of various CoolIt patents, starting 2 with '330, shows that the seal that is filling the gap between the second side of the housing and top of the 4 plate could be an integral part of the claimed plate in the Gen 5, 6, 7 of the accused Asetek products, the 5 6 seal and some other functions are integrated together with the plate to form plate seal assembly. BY MS. BHATTACHARYYA: Q. Dr. Pokharna, I don't think that answers my 9 10 question, but perhaps I should rephrase my question. That may help you answer it. 11 12 With respect to Asetek's accused Gen 5, 6, and 7 products, you are referring to the portion of 13 14 the gasket structure that overlies the microchannels -- microchannels and microchannel fins 15 of the heat spreader plate as the claimed plate; 16 17 correct? 18 Α. That's correct. 19 In Asetek's accused Gen 5, 6, and 7 products, the portion of the gasket structure that overlies the 2.0 microchannels and microchannel fins of the heat 21 22 spreader plate is made of EPDM; correct? 23 Objection. Asked and answered. MR. DYER: THE WITNESS: Yes, it's made of EPDM. 24 25 BY MS. BHATTACHARYYA:

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- Q. You're interpreting the claim term "plate" in CoolIt's claims to include both a metal plate, as in the Gen 4 products, as well as a structure made of EPDM, as in Asetek's Gen 5, 6, and 7 products; correct?
- A. There is no material limitations for the plate in the disclosure of '266 and various other CoolIt patents. And it has a structure that is substantially two-dimensional -- it's structure that is flat -- I don't want to say -- a structure that is substantially flat, and it has to perform a job of covering the top of the channels. And both the metal plate and the EPDM are performing that job.

There are lots of other material properties which could have additional limitations, but those limitations are not present in the disclosure or the claims of '26- -- '330 and the -- some of the other CoolIt patents.

So I do not believe that there is any other limitation that is present. For example, right, I mean, you know, they could be optically transferring or optically opaque. They could be electrically conductive or nonconductive. None of those kinds of limitations are present; therefore, we could map the plate to be metal or plate to be some other material,

1 like EPDM, that is performing the function of covering 2 the top of the channels. So you're interpreting the claim term "plate" to cover any kind of material, be it rigid or 4 compliant, as long as it performs the function of a 5 6 plate; is that right? 7 MR. DYER: Objection. Mischaracterizes his 8 testimony. 9 THE WITNESS: This material could not be so 10 floppy that it could not regain the pressure 11 differentials across this plate and distorts against that minutia stuff of stress. Those materials could 12 not perform the function of a plate. 13 14 But there is nothing limiting about a plate. I mean even from -- look at it from the point of view 15 of like, you know, your household; right? I mean we 16 17 use -- I mean I certainly use Styrofoam plates or 18 paper plates. You know, I mean, in fact, I just 19 picked up a plate from my home just like earlier today, and that was used to kind of -- it was left 2.0 21 over from feeding a baby. And, you know, this is the 22 plate and, you know, it's flexible like anything; right? 23 I mean just within my home today, in the 24 25 morning I walked over and picked up some things that Page 93

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were -- I mean I'll point to you another thing which I picked up from my son. And he's 21 years old and doing bodybuilding and, you know, he refers to this as rubber plate. This is called a rubber plate in weightlifting. And, you know, it's without rubber. You would call it stiff under your definition, completely stiff, in fact. Probably it's made out of EDPM.

Again, my home, I just got it repaired, and the roofing guy brought in -- I had a leak in my skylight, and he brought in EPDM plates that were -- you know, I could not -- I could not bend it with my hand.

So just looking at this as, you know, in a very simple manner that it is, you know, compliant or it is stiff, I mean, from a point of view of a POSITA, when he looks at these patents in its entirety, the plate has a function of covering the top of the channels. They -- as long as they cover the top of the channels without allowing the fluids to leak out of it, it is a plate from the point of view of person of ordinary skill in the art.

Now, we cannot say the plate is coming made out of China. I mean it could be made out of silicone or could be made out of Styrofoam, which is, you know,

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EPS or something that is fairly soft. So, you know, there's no additional limitation that -- that, you know, we are trying to bring in. The '330 patent and the 2007 provisional do not provide any disclosure for the material of the plate; correct? Α. Yes. It's not limiting. And are you aware that the Patent Office has 0. found that there is no disclosure for a compliant plate in the 2007 provisional and the '330 patent? MR. DYER: Objection. Mischaracterizes. THE WITNESS: Frankly, I disagree with that position from PTAB. I believe that there is ample disclosure which I have laid out in those IPRs that you referred to earlier. Furthermore, like I laid out earlier, from a point of view of POSITA, if this was so compliant, then it could not perform its function because it

might distort against the pressure -- pressure differential that is present between two sides of the plate.

Compliancy, again, is not a material property. The reason that that entire discussion came in in the further 2011 disclosure had to do with the fact that the compliant insert was substantially

1 thick, and therefore, if it is made out of more solid 2 materials, you know, more stiff materials, then it will have no compliancy at all if it was made out of more -- you know, I should say, tougher materials, 4 right, because toughness is more related to the 5 6 material property than compliancy. BY MS. BHATTACHARYYA: 8 Dr. Pokharna, I understand that you disagree with the position taken by the patent office. But I'm 9 10 just asking you, you are aware that the patent office disagreed with you with respect to whether there is 11 12 disclosure for a compliant member or plate in the 2007 13 provisional; correct? 14 MR. DYER: Objection. Mischaracterizes. THE WITNESS: I -- I believe the patent 15 16 office did disagree from certain parts of my analysis. 17 I don't recall exactly all the details of their 18 argument. 19 BY MS. BHATTACHARYYA: Let's switch gears a little bit. 2.0 Q. MR. DYER: Counsel, I'm not sure what the --21 22 it seems like we've been on the record for a while, so 23 if it's a good point to break -- I may be wrong, but 24 it's my brain, seems to think it's been pretty long. 25 MS. BHATTACHARYYA: It's been a little over Page 96

CERTIFICATE

I do hereby certify that the aforesaid testimony was taken before me, pursuant to notice, at the time and place indicated; that said deponent was by me duly sworn to tell the truth, the whole truth, and nothing but the truth; that the testimony of said deponent was correctly recorded in machine shorthand by me and thereafter transcribed under my supervision with computer-aided transcription; that the deposition is a true and correct record of the testimony given by the witness; and that I am neither of counsel nor kin to any party in said action, nor interested in the outcome thereof.

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Dated: January 10, 2022

Nancy J. Martin, RMR, CSR

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